

Fig. 1A

Translat/fusion

Oligo-dT

Ni-NTA

RT

well

mRNA-pep

RT'ed mRNA-pep

NS

free pep

Fig. 1B

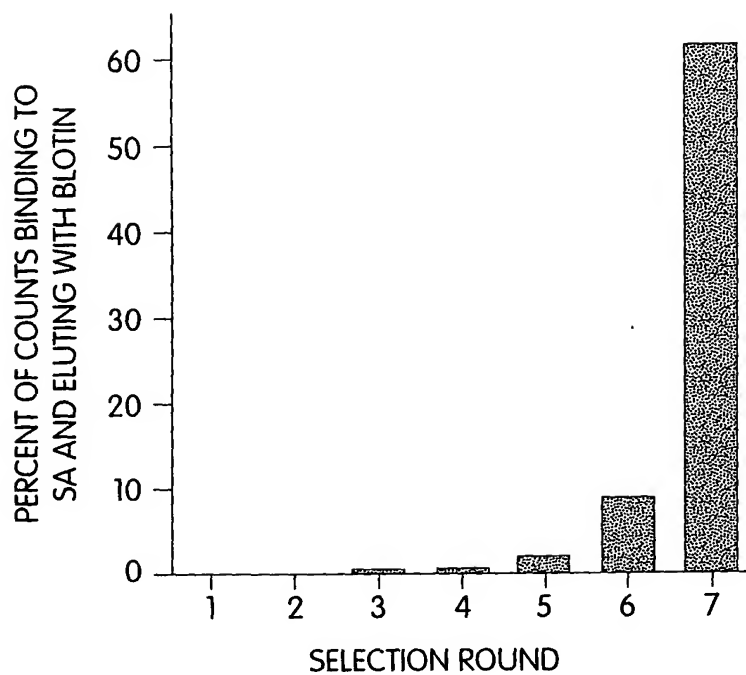


Fig. 2A

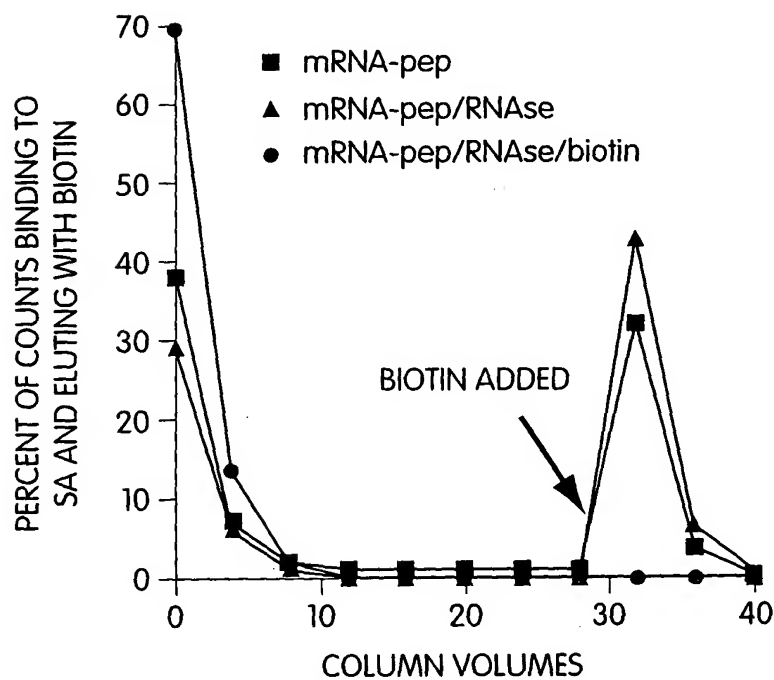


Fig. 2B

# Figure 3

name #	SEQ	ID NO:
SB1 3	<u>MDEKTHCTISMN</u> GA VPLVPHH <b>HPQ</b> GDPLRLLLHRPQAPALLVR <b>HPQ</b> GDVALVVEHHEGVDRGLVALPELHAEELGEPVGDVVGQVPEQVQGVVDALVWRLPPS	1
SB2 2	<u>MDEKTHCFHPG</u> DHLVRLVEELQALAEGLQRQGGRRQPHRLPRRRPHHLQLLLDEA <b>HPQ</b> AGPLRERAHQVDGRILLQL <b>HPQ</b> GGDRLLQQPQDPHLELVWRLPPS	2
SB3 4	<u>MTRRP</u> TASSSSCVRHLLLRQGEHGHQALEDRDKARHVRLVEGDVEVLGGDLRLARARHEAL <b>HPQ</b> AGLVHLPLHGGDLGGHLRLVLEA <b>HPQ</b> QDRRLGLAVHHH	3
SB4 1	<u>MDEKTHWGI</u> STWRGEPLL <b>HPQ</b> AGRLPLDRRRARHRRILGAEPGGVDHGLRLELLDDHRPLVPD <b>HPQ</b> RGQGPLQGGDLQVVPVPLVRLRHAHVGLGLGLAAATIT	4
SB5 3	<u>MDEKTHWNVVY</u> <b>HPQ</b> GDLLVRGHHGHDVEALHDQGLHQLDLLVGPPEVVRAIRGEVLGGRLRLVPLD <b>HPQ</b> GEALDQARQRPQHLLLELHHRALPPALVWRLPPS	5
SB6 1	<u>MDEKTHLNN</u> FEELLARLDGLREGEDHPLVLR <b>HPQ</b> GDGLLDQPLGRHRALDGEVREGDRPLDQGGGEEDLGALVDDDDGEVLDDGLVHVGVHVDPLVCGCHHH	6
SB7 1	<u>MDEKTHWFG</u> TINSFPTHMMSAVGNKIDCSFNMNLSLNHWLSSGHPDGDALDDQ <b>HPQ</b> GDALVGRDDGVQALRLEGHQHRRLLAQRRAADRHRQVWRLPPS	7
SB8 1	<u>MDEKTHCTI</u> ELNFSFTHWKLHH <b>HPQ</b> QGDALLDDGVRPHHPLADEGGGLDDQGLGHRRGVVAERLARRDPEVLEGLVERHRGLVPRLRHGGGERHAEPVWRLPPS	8
SB9 1	<u>MDEKTHCNT</u> GLYDGAADCFNELNKDVAFLVEGRHDLVEGLLLER <b>HPQ</b> GDPLVAHRQLVHHPLGGRGERHRRALVPQQEHQPHRLQPVVDLGRRRLLVWRLPPS	9
SB10 1	<u>MDEKTHWHERA</u> QELVGGLLLHD <b>HPQ</b> RLLEPRGPRPLRGLVHERGHQPPQPLAGRVEEADCGLLRDGGGELEPLVREGEDHLEPLDDELDAGRGLVWRLPHHH	10
SB11 1	<u>MDEKTHWHERV</u> HHLADGLEQ <b>HPQ</b> QRRPLVERHRQVPRGLVRELOHEGLPLEHPAGVHVIRLHQGDDRDVDGLVDGCHGRDVRGLEREVEVGDPHRLVWRLPPS	11
SB12 4	<u>MDKDPL</u> LEELLEELRERLV <b>HPQ</b> GGLLPLRGQVGHDAERLGAEVDDLRGGLLDEPQRAVAGLHHVPHRVGQRLVHEVRELDGLDDQRDDLQRQLVWRLPPS	12
SB13 2	<u>MERED</u> PLDEQIRELREALVD <b>HPQ</b> GGGAQALHRHDGGEHVPLRRVQHRLQPGQLHHLEPPQPLGGLGELQARLQPLAGEHEGDCAGLQRPVPGHQGRRLVWRLPPS	13
SB14 1	<u>MDEKTHRT</u> LSVLSLNFNDMLGQTKACWRLVEGLH <b>HPQ</b> QGLVREHEVDVLPLAEVQVQVVGGLADGVEQPGGGLLHRAQRVDHPLPDHAGQVLRGLVWRLPPS	14
SB15 1	<u>MDEKTHWLED</u> LKGVLDCLKDLMDFTKDCRSPRVQPPQLLHHDRGEPVPLLRAGARDLGGLGPRAPRQARPLHHGRHDLHEPLVLQD <b>HPQ</b> GGGPLVCGCHHH	15
SB16 1	<u>MDEKTHWVL</u> QL <b>HPQ</b> GDRLGPRHGGDDVRLVGQGEVLEGLDGRPRRRRHRLPREDEHRVRLVDQVRDLAERLVEEVGQVEALRHLGLPQDEPRSGGCHHH	16
SB17 2	<u>MDEKTHWVG</u> DLQEPPLGPHGGVGEVPGGLVLR <b>HPQ</b> QRDLVDGVGPHGRALARRPHRWEGLHHLLQRGGERLPPDGPRQLGLLGGELDRADPALVWRLPPS	17
SB18 1	<u>MDEKTHCAV</u> NVNVGLTHWCHRV AHLQPLD <b>HPQ</b> GDHLRLLEPLGHALVDPLVQGVVEVVRPLQLDVGVRVALVEQVAEVGEGLDHEAGQAAGALVWRLPPS	18
SB19 1	<u>MDEKTTG</u> WRGGHVVEGLAGELEQLRARLE <b>HPQ</b> QGREPLVQVEEDVEGLVQDLHGVAAGLLDPVEKLLTDWPKFKKNVSKDCKMTFYLEMVDWSGGCHHH	19
SB20 1	<u>MNEKTHCK</u> LNFKVNIADWLAEFHGGGGLLRDDGVVQRLVDGVQERVERLDRDPGLGDLRLLELHHRDHLRGLGGEHLRLDRHPLPDDHLVVGGLVWRLPPS	20

Fig. 3

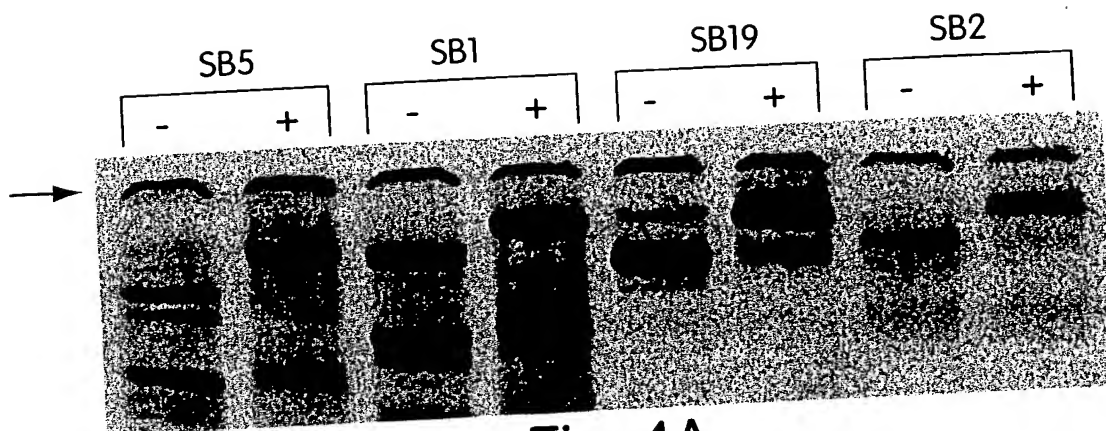


Fig. 4A

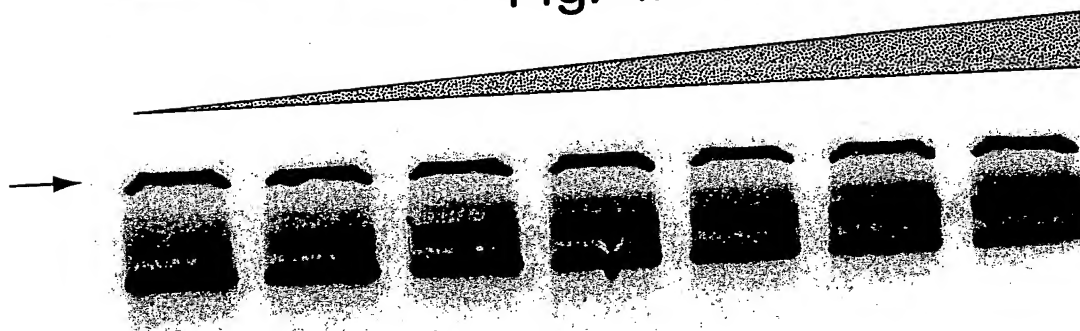


Fig. 4B

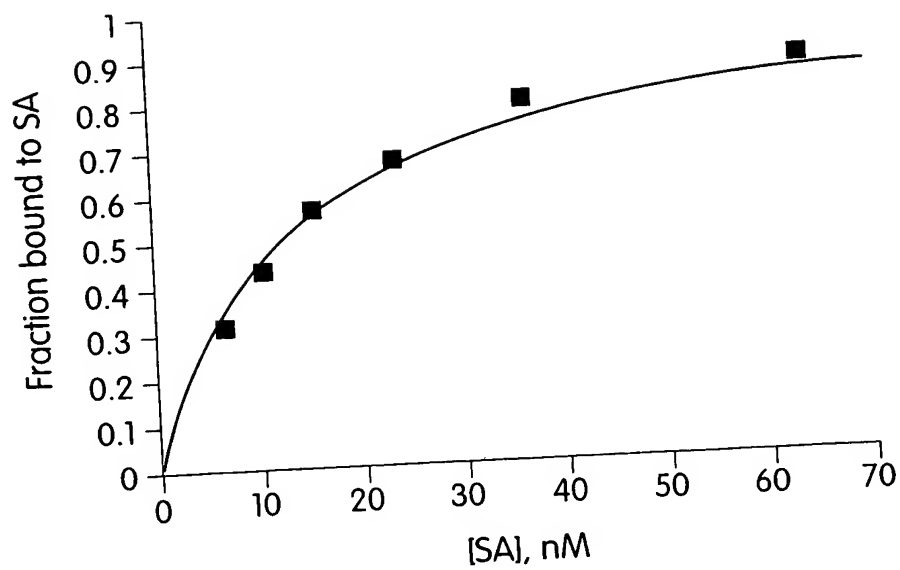


Fig. 4C

Protein Data Bank

		% binding	SEQ ID NO:
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C1	MDEKTTGWRGCHVVEGLAGELEQLRARLEHHPQGQREPLVQVEEDVDEGLVQDLHGVAAGLLDPVEKLLTDWFKKFKNV	87	22
C2	MDEKTTGWRGCHVVEGLAGELEQLRARLEHHPQGQREPLVQVEEDVDEGLVQDLHGVAAGLLDPVE	88	23
C3	MDEKTTGWRGCHVVEGLAGELEQLRARLEHHPQGQREPLVQVEEDVDEGLVQDLHGVAAGLLDPVE	89	24
C4	MDEKTTGWRGCHVVEGLAGELEQLRARLEHHPQGQREPLVQVEEDVDEGLVQ	88	25
M1	MDEKTTGWRGCHVVEGLAGELEQLRARLEHHPQGQREPLVQVEEDVDEGLVQ	0.065	26
N1	MD	69	27
N2	MD	30	28
N3	M	0.058	29

Fig. 5

**Fig. 6A**

CGCAATTGTCGGCGGATTAAATCTCGCGCCGATCAACTGGTGCCAGCGTGGTGTGTCGATGGTAGAACGACGGGC  
 GTCGAAGCCTGTAAAGCGCGGTGCACAATCTTCTCGGCAACGCGTCAGTGGGTGATCATTAACATATCCGCTGGATGA  
 CCAGGATGCCATTGCTGTGGAAGCTGCCGTGCACATAATGTTCCGGCGTTATTTCTTGATGTCTCTGACGACACCCCATCA  
 ACAGATTATTTTCTCCCATGAAGACGGTACCGGACTGGCGGTGAGCATCTGGTCGCATTGGTCACGACAAATCGCG  
 CTGTTAGCGGGCCCATTAAGTTCTGTCTCGGCGCTCTGCGTCTGGCTGGCATAAATATCTCACTCGCAATCAAAAT  
 TCAGCCGATAGCGGAACGGGAAGGCGACTGGAGTGCCATGTCCGGTTTTCAACAAACCATGCAAAATGCTGAATGAGGGCA  
 TCGTTCACACTGCCATGCTGGTTGCCAACGATCAGATGGCGTGGGCGCAATGCGGCCATTACCGAGTCCGGGCTGCGC  
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 AGCTGTTGCCGCTCTCACTGGTGAAAAGAAAACCAACCTGGCGCCCAATACGCAACCGCCTCTCCCGCGCTTGCC  
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 ATGACTATCGTCCCGCACTTATGACTGCTTTTATCATGCAACTCGTAGGACAGGTGCCGAGCGCTCTGGGTCAAT  
 TTTCGGCGAGGACCGCTTTCGTGGAGCGGACGATGATCGGCCGTGCGTTGCGGTATTCGGAATCTTGACGCGCTCG  
 CTCAAGCCTTCGTCACTGGTCCCGCCACCAACGTTTCGGCGAGAAGCAGGCCATTATCGCCGCGATGGCGGCCCAACGG  
 GTGCGCATGATCGTGCTCTGTGTTGAGGACCCGGCTAGGCTGGCGGGTGGCTTACTGTTAGCAGAAATGAATCAAC  
 GATACGCGAGCGAACGTGAACGACTGCTGCTGCAAAACGTCTGCGACCTGAGCAACAACATGAATGGTCTCGGTTTCC  
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 ACAGGCAGACATCTGTGAATCGCTTACGACCCACGCTGATGAGCTTACCAGCTGCTCGCGCTTTCGGTGTATGACG  
 GTGAAAACCTCTGACACATGCACTCCCGGGAGACGGTCAACGCTTGCTGTAAAGCGGATGCCGGAGCAGACAAGCCCGT  
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 AATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAGATACAGGCGTTTCCCCCTGGAAGCTCCCCCTCGT  
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Fig. 6A (continued)



# Table 1

GCTCAGCGTGTAGGTATCTCAGTTCGGTGTAGTCTGCTCGTCCAAAGCTGGGCTGTGTGCAGAACCCCCCGTTTCAGCCC  
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 TGGTAACAGGATTAGCAGAGCGAGGTATGTAGCGGTGTCTACAGAGTCTTGAAGTGGTGGCCTAACTACGGCTACACTA  
 GAAGACAGTATTTGGTATCTGCGCTCTGTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAA  
 CAAACCAACCGCTGGTAGCGGTGGTTTTTTTGTTCGAAGCAGCAGATTACGGCAGAAAAAAGGATCTCAAGAAAGATCC  
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 GTCAGACTAACTGGCTGACCGGAATTTATGCTCTTCCGACCATCAAGCATTTTATCCGTACTCCTGATGATGATGGTT  
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 CGTGGCAGTGTCTCGCGCGGTGCAATTCGATTCTCTGTTGTAATTGCTCTTTAAACAGCGATCGCGTATTTCGTCCTC  
 GCTCAGGCGCAATCAGAAATGAATAACGGTTTGGTTGATGCGAGTGATTTGATGACGAGCGTAATGGCTGGCCTGTTGA  
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 GAGGTGCCGTAAAGCACTAAATCGGAACCCCTAAAGGAGCCCCCGATTAGAGCTTGACGGGGAAGCCGGCAACGTGG  
 CGAGAAAGGAAGGAAGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTACGCTGCGCGTAACCCACC  
 ACACCCGCGCGCTTAATGCGCCCGCTACAGGGCGCGTCCCATTCGCCA

Fig. 6A (continued)

Fig. 6A

(SEQ ID No.:38)

MGIEGKLVINGDKGYNGLAEVGKKFEKDTGIKVTVEHPDKLEEKFPQVAATGDGPDIIFWAHDRFGGYAQSGLLAEI  
TPDKAFQDKLYPFTWDVRYNGKLIAYPIAVEALSLLYNKDLLPNPPKTWEEIPALDKELKAKGKSALMFNLQEPYFTWP  
LIAADGGYAFKYENGKYDIKDVGVNDNAGAKAGLTFLVDLIKKNHNMADTDYSIAEAAFNKGETAMTINGPWAWNSNIDTSK  
VNYGVTVLPTFKGQPSKPFVGVLSAGINAASPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELAKDPRIAA  
TMENAQKGEIMPNI PQMSAFWAVRTAVINAASGRQTVDEALKDAQTNSSSGSGSGSMDEKTTGWRGGHVVEGLAGELEQ  
LRARLEHHFPQGQREP GSGHHHHHHEFLVPRGSMDPCKVCKKVA PRNWKVKNKHLRIYNMCKTCFNNSIDIGDDTYHGHDD

Fig. 6B

(SEQ ID No.:39)

MDPCVKCKVAPRNWKVKNKHLRIYNMCKTCFNNSIDIGDDTYHGHDD

Fig. 6C

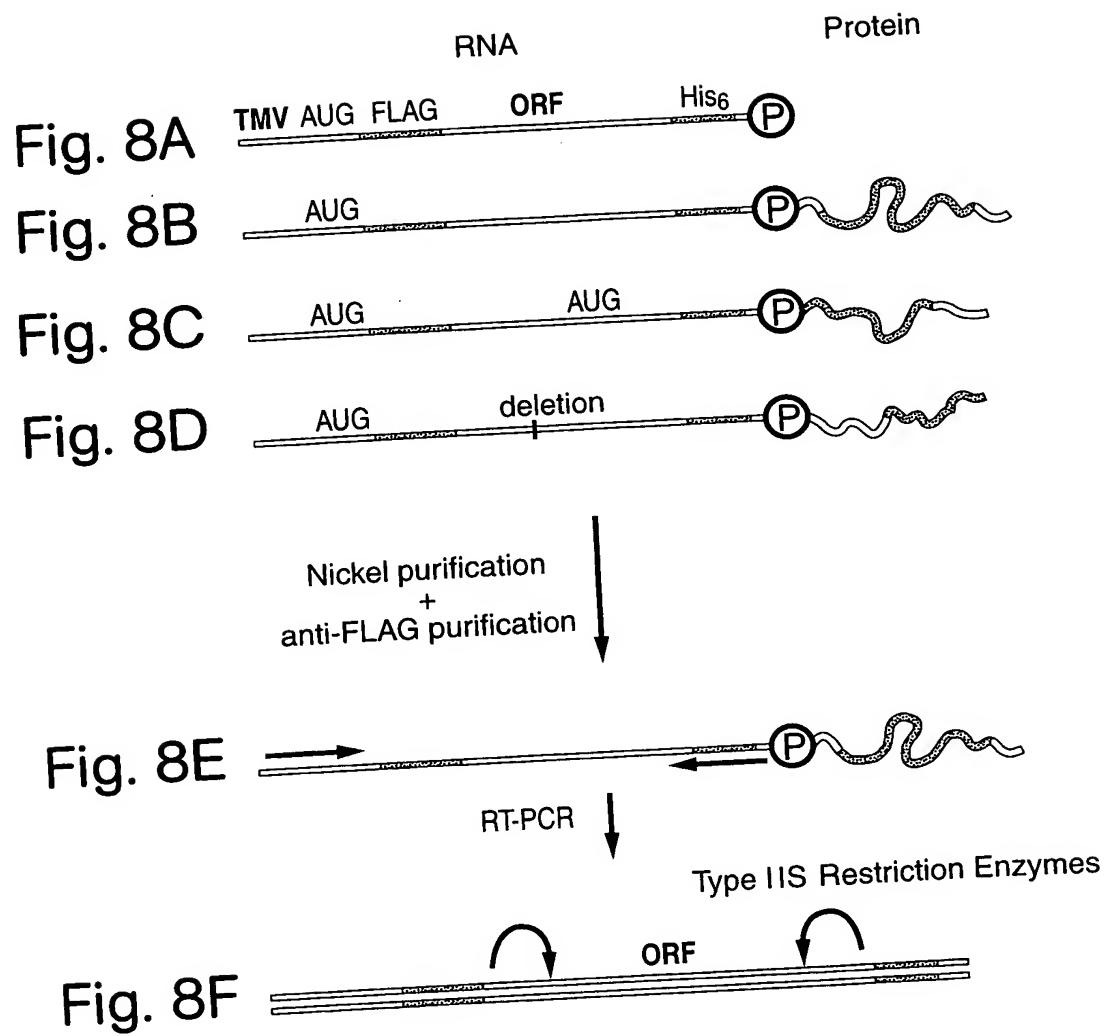
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MDEKTTGWRRGGHVVEGLAGELEQLRARLEHHPEQQREP

Fig. 7A



Fig. 7B





ACTATCCGCTGGATGACCAGGATGCCATTGCTGTGGAAGCTGCCCTGCACTAAATGTTCCGGCGTTATTCTTGATGTCTCT  
GACCAGACACCCATCAACAGTATTATTTCTCCCATGAAGACGGTACGGCACTGGCGGTGGAGCATCTGGTCGATTGGG  
TCACCAGCAAAATCGCGCTGTAGCGGGCCCATTAAGTTCTGTCTCGCGCGCTCTGCGTCTGGCTGGCTGGCATAAATATC  
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ATGCTGAATGAGGGCATCGTTCCCACTGCGATGCTGTTGCCAAGCATCAGATGGCGTGGCGCAATGCGCGCCATTAC  
CGAGTCCGGGCTGCGCGTTGGTGGGATATCTCGGTAGTGGGATACGACGATACCGAAGACAGCTCATGTTATATCCCGC  
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CAGCGCTCTGGGTCAATTTCCGGCGAGGACCGCTTTCGCTGGAGCGGACGATGATCGGCCGTGTCTGCTTGGGTATTTCGGA  
ATCTTGACGCCCTCGCTCAAGCTTCTGCTCACTGGTCCCGCACCAACGTTTCGGGAGAGCAGAGGCCATTATCGCCGG  
CATGGCGGCCCAACGGGTGCGCATGATCGTGTCTCTGCTGAGGACCCGGTAGCTGGCGGGGTTGCCCTTACTGGTT  
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CGCAGGATGCTGCTGGCTACCTGTGGAACACCTACATCTGTATTAACGAAGCGTGGCATTGACCCCTGAGTGATGATTTTC  
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CGTATCGTGAGCATCCTCTCTCGTTTCATCGGTATCATTACCCCATGAACAGAAATCCCCCTTACACGGAGGCATCAGT  
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GCGGAGTGATACTGGCTTAACATATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATATGCGGTGTGAAATACC  
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GTGGCGCTTCTCATAGCTCAGCTGATAGGTATCTCAGTTCGGTGTAGGTCTGCTCCAGCTGGGCTGTGTGCACGA  
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Fig. 9A (continued)

# Sequence

CACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCAGGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCT  
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 CTC TTGATCCGGCAACAACCCAGCTGGTAGCGGTGGTTTTTTTGTTCGAAGCAGAGATTACGGCGAGAAAAAAG  
 GATCTCAAGAAGATCTCTTGATCTTTCTACGGGTCTACCGTCAGTGAACGAAACTCACGTTAAGGAGATTTTGGTC  
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 GCGACAATCTATCGATTGATGGGAAGCCCGATGCGCCAGAGTTGTTCTGAAACATGGCAAAGTAGCGTTGCCAATGA  
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 GATTTCTCACTTGATAACCTTATTTTGACGAGGGAAATTAATAGTTGTATTGATGTTGGACGAGTCGGAATCGCAGA  
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 ATGGTATTGATAATCCTGATATGAATAAATTGCAGTTTCATTTGATGCTCGATGAGTTTTTCTAAGAAATTAATTTCATGAG  
 CCGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGTTCCGCGCACATTTCCCGAAAAAGTGCCACCTGAAA  
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 GGCAAAATCCCTTATAAATCAAAAGAAATAGACCGAGATAGGGTTGAGTGTGTTCCAGTTTGGAAACAAGATCCCACTATT  
 AAAGAACGTGGACTCCAACGTCAAAGGGCAAAACCCGCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCCTAAT  
 CAAGTTTTTTGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCCTAAAGGGAGCCCCCGATTAGAGCTTGACGGGA  
 AAGCCGGCGAACGTGGCGAGAAAGGAAGGAAAGCAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTAC  
 GCTGCGCGTAACCAACACACCCCGCGCTTAATGCGCGCGCTACAGGGCGCGTCCCATTCGCCA

Fig. 9A (continued)

11

(SEQ ID No.: 41)

MGIEEGLVIWINGDKYGLAEVGGKFEKDTGIKVTVEHPDKLEEFQVAAATGDGPDIIFWAHDRFGGYAQSGLLAEITPDKAFQDKLYPTTWDVAVRYNGKLIAYPIAVEALSIIYNKDLLPNPPKTWEEIIPALDKELKAKKSALMFNLQEPYFTWPLIAADGGYAFKYENCKYDIKDVGVDNAGAKAGLTFLVDLIKNKHMNADTDYSIAEAAFNKGETAMTINGPWAWSNIDTSKVNYGTVLPTFKGQPSKPFVGVLSAGINAA SPNKELAKEFLENYLLTDEGLEAVNKDKPLGAVALKSYEEELAKDPRIAA TMENAAQKEIMPNI PQMSAFWYAVRTAVINAA SGRQTVD EALKDAQTNSSSGSGSGMDEKTTGWRGGHVVEGLAGELEQLRARLEHHHPQGPQREP GSGHHHHHHHEF

Fig. 9B



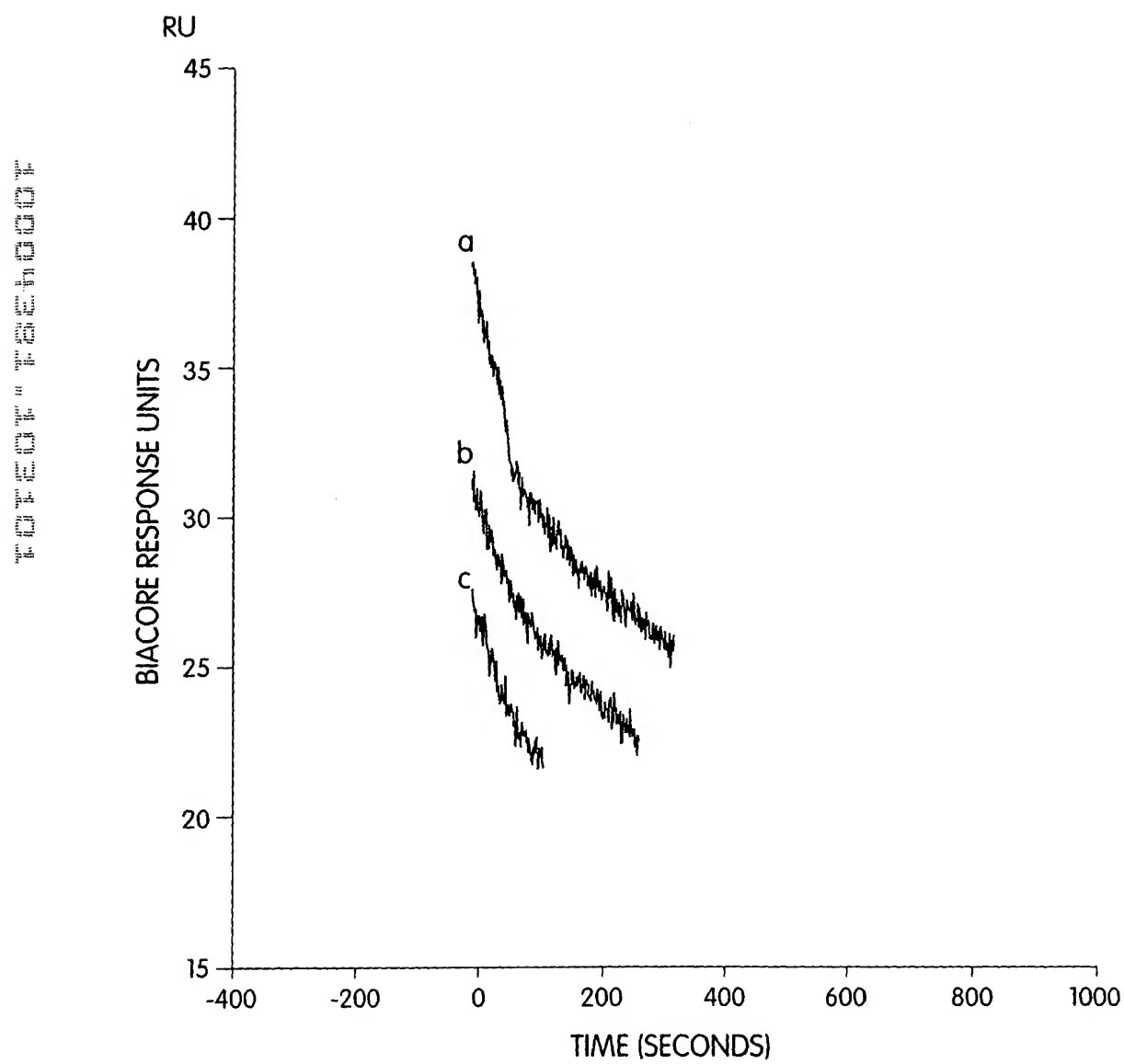


Fig. 10A

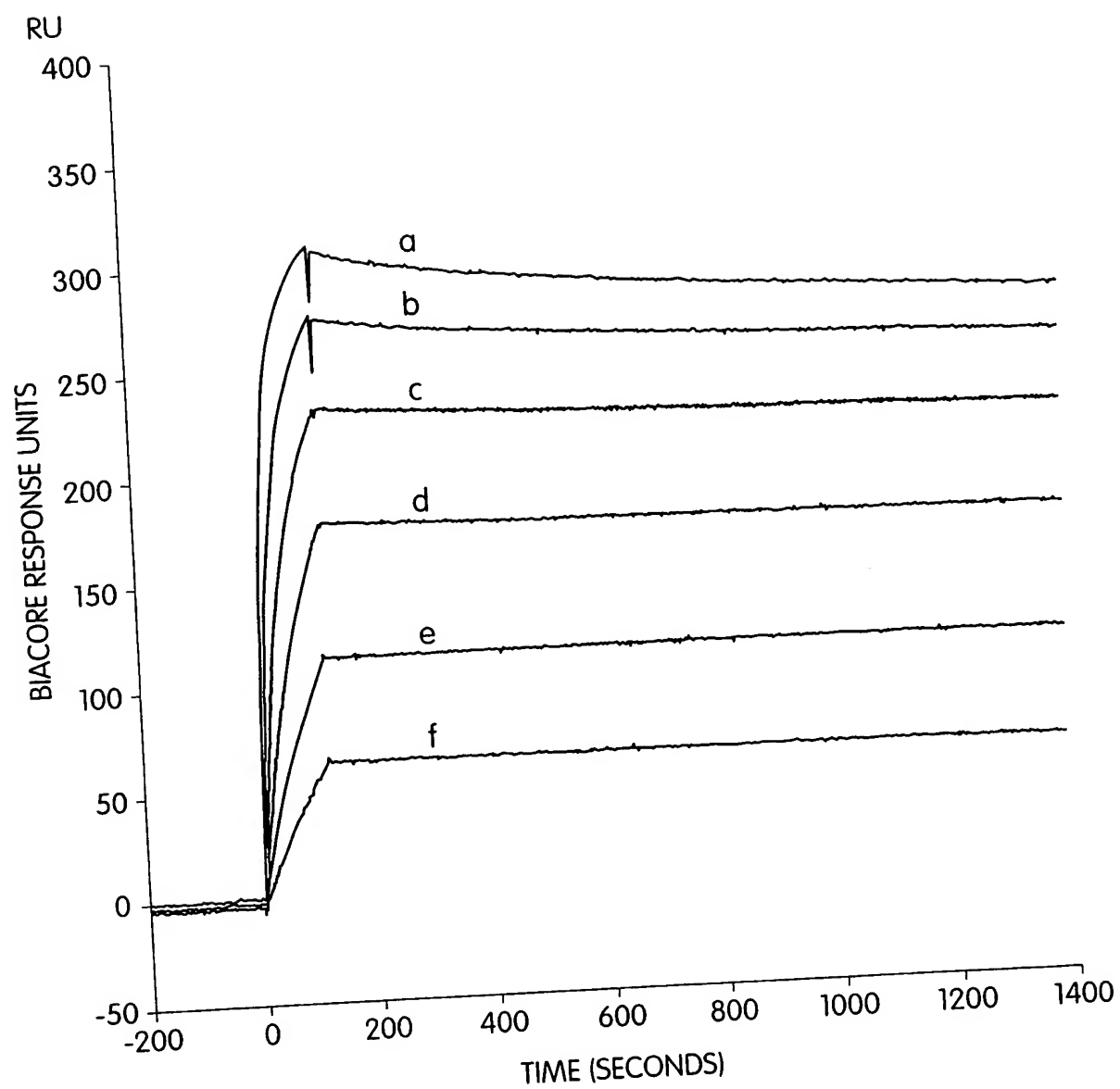
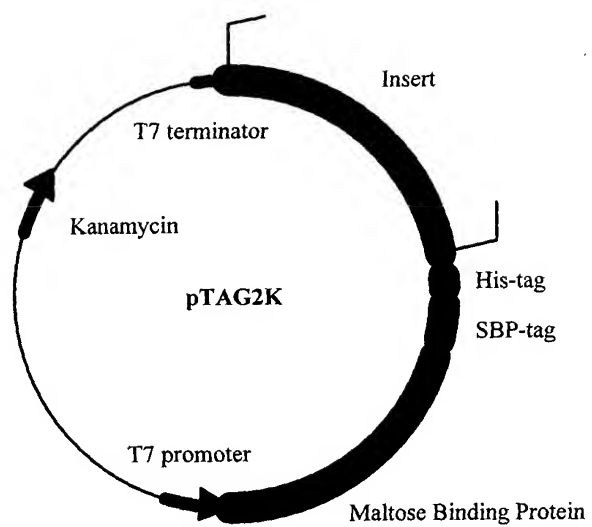


Fig. 10B



**Fig. 11**

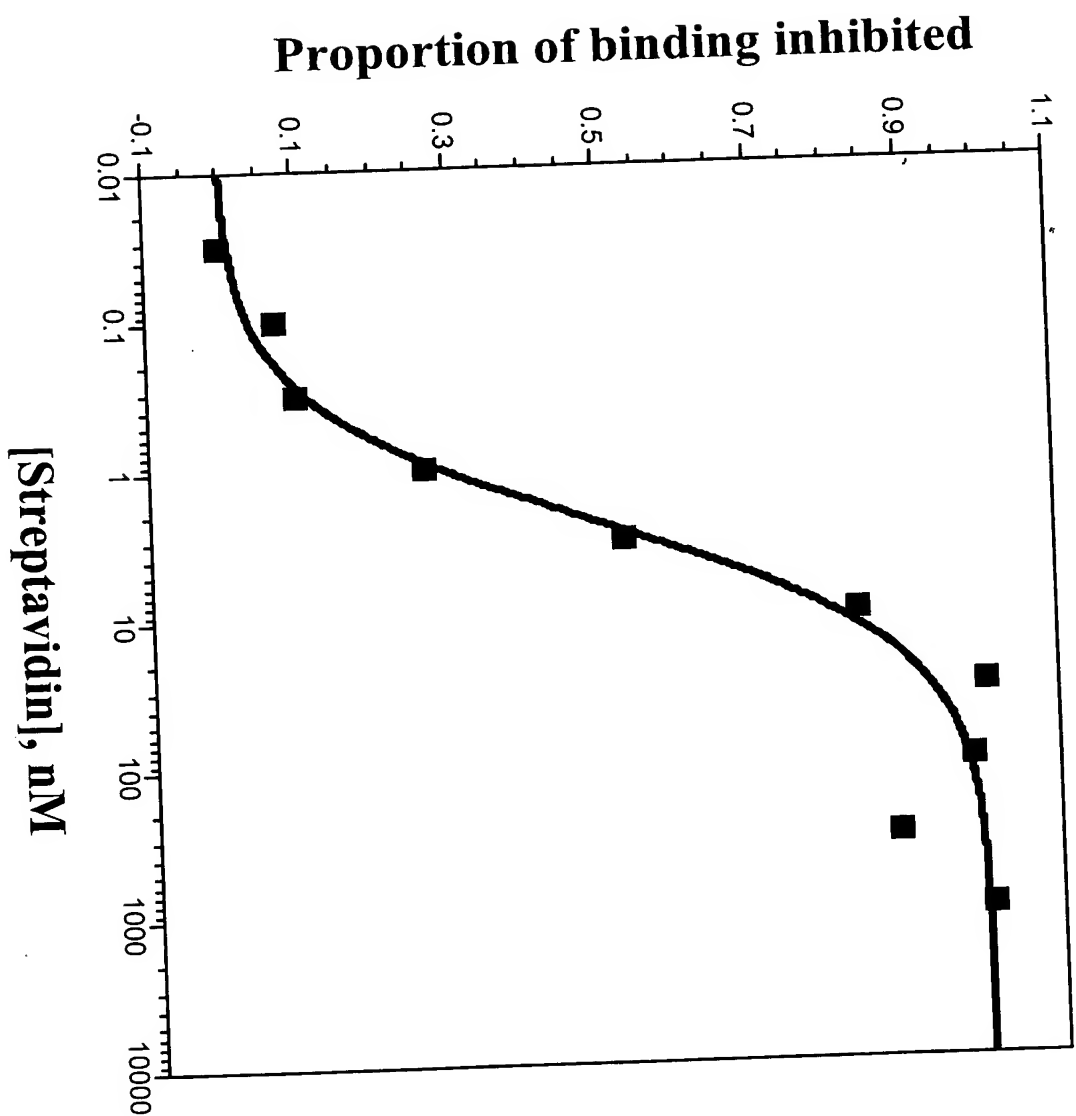


Fig. 12

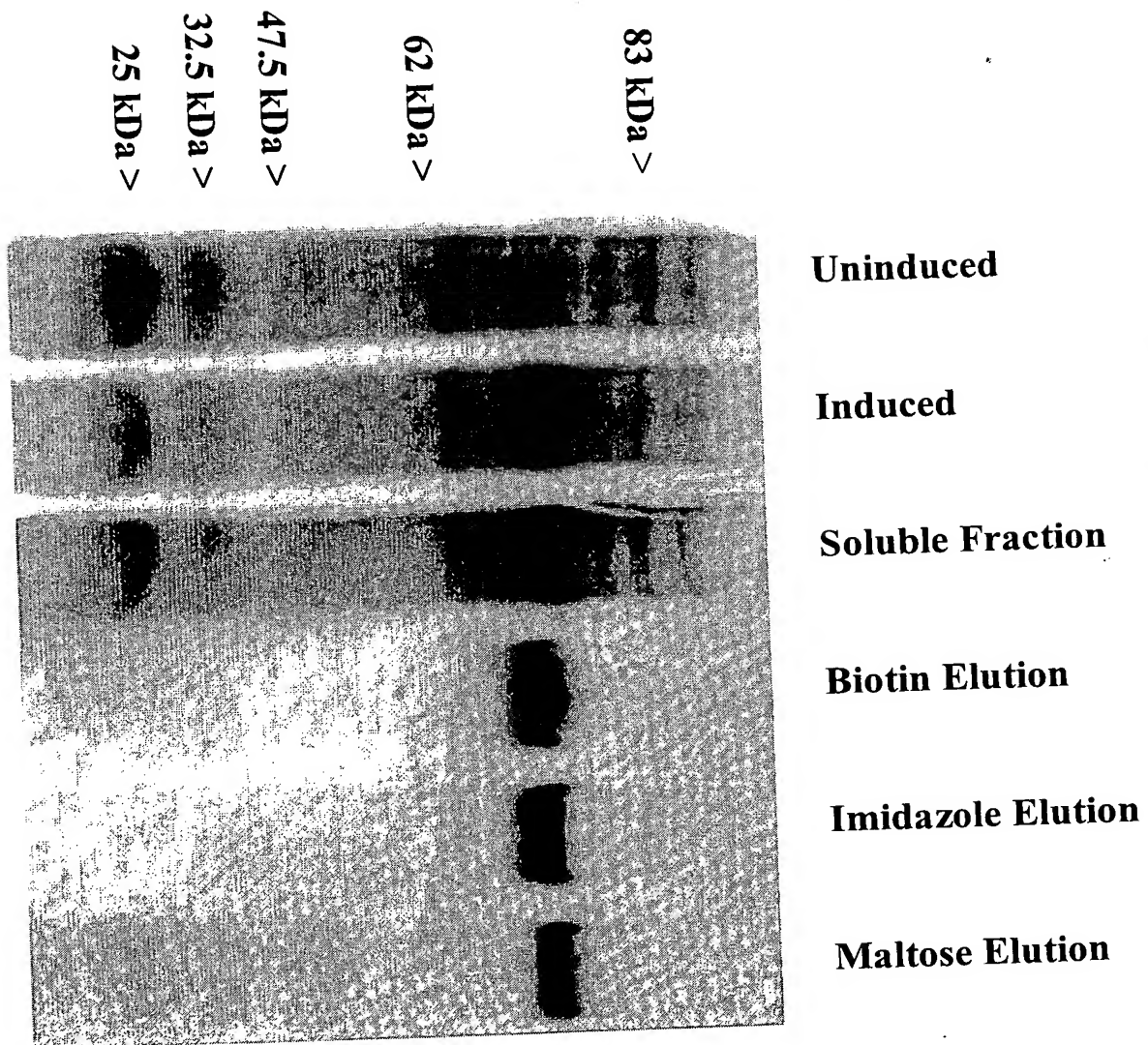


Fig. 13

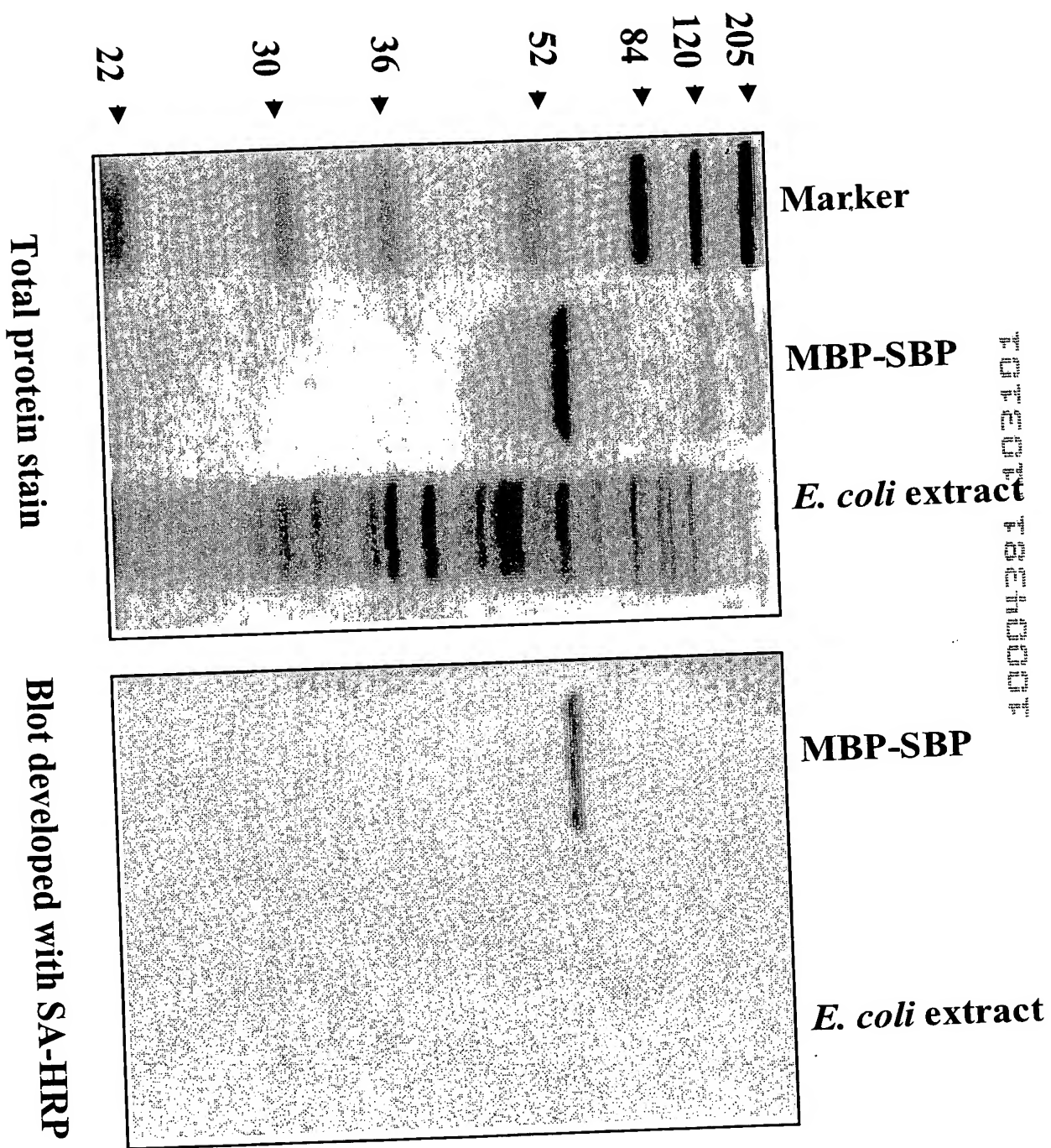


Fig. 14

Figure 1 is a graph showing the fraction of binding inhibited (Y-axis, ranging from -0.2 to 1.2) versus the concentration of SA ([SA], nM) (X-axis, logarithmic scale, ranging from 0.001 to 100,000). The data points (filled squares) show a sigmoidal curve, indicating that the fraction of binding inhibited increases sharply between 0.1 nM and 10 nM, reaching a plateau around 1.0. A solid line represents the fitted curve.

**Fig. 15**